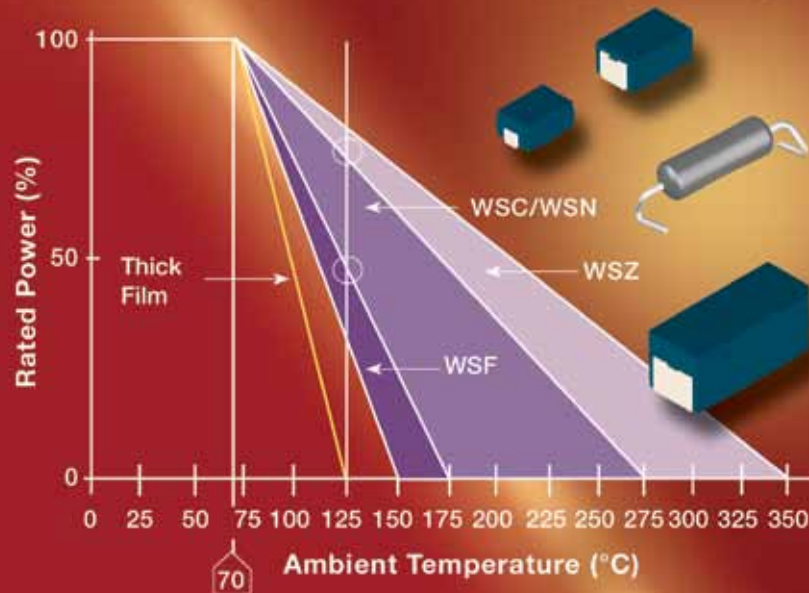




# HIGH-POWER SURFACE-MOUNT RESISTORS

**INDUSTRY LEADING**

WSC/WSF/WSN/WSZ Resistors Offer Higher Power Ratings at Elevated Temperatures vs. other Technologies



## KEY BENEFITS

- A wide range of package sizes (2012 to 7532)
- A wide resistance range (0.1  $\Omega$  to 100 k $\Omega$ )
- High-temperature performance (up to 350 °C)
- Tight tolerances (down to  $\pm 0.1$  %)
- Low temperature coefficients (down to  $\pm 20$  ppm/°C)
- Excellent overload capability
- Non-inductive WSC available (WSN family)

## APPLICATIONS








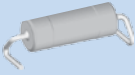
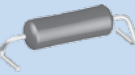
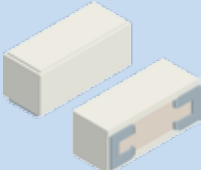
- Instrumentation
- DC/DC converters
- Voltage divider circuits
- Automotive controls
  - Engine control modules
  - Body electronics and powertrain
- Satellite receivers
- Motor controls
- Pulsing applications
- Switching systems
- Telecommunications
  - Networking
  - Line cards



# HIGH-POWER SURFACE-MOUNT RESISTORS

RESISTIVE PRODUCTS

SELECTOR GUIDE

Global Model and Wattage Rating	Resistance Range	RTC (ppm/°C)	Tolerance	Dimensions	Technology
<b>WSC/WSN01/2 0.5 W</b> 	0.1 Ω - 0.99 Ω* 1.0 Ω - 4.99 Ω*	± 90 ± 50	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.200 in. [5.08 mm] W = 0.125 in. [3.18 mm] H = 0.096 in. [2.44 mm]	Wirewound
<b>WSC/WSN2515 1.0 W</b> 	0.1 Ω - 0.3 Ω* 0.31 Ω - 0.99 Ω* 1 Ω - 9.99 Ω* 10 Ω - 2.77 kΩ*	± 150 ± 90 ± 50 ± 20	± 0.5 %, ± 1 %, ± 5 % ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %, ± 5 % ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %, ± 5 % ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %, ± 5 %	L = 0.250 in. [6.35 mm] W = 0.150 in. [3.81 mm] H = 0.110 in. [2.79 mm]	Wirewound
<b>WSC/WSN4527 2.0 W</b> 	0.1 Ω - 0.30 Ω* 0.31 Ω - 0.99 Ω* 1.0 Ω - 9.99 Ω* 10 Ω - 4.92 kΩ*	± 150 ± 90 ± 50 ± 20	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.455 in. [11.56 mm] W = 0.275 in. [6.98 mm] H = 0.167 in. [4.24 mm]	Wirewound
<b>WSC/WSN6927 3.0 W</b> 	0.1 Ω - 0.30 Ω* 0.31 Ω - 0.99 Ω* 1.0 Ω - 9.99 Ω* 10 Ω - 8 kΩ*	± 150 ± 90 ± 50 ± 20	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.690 in. [17.53 mm] W = 0.275 in. [6.98 mm] H = 0.280 in. [7.11 mm]	Wirewound
<b>WSF2012 0.5 W</b> 	5.0 Ω - 1.43 kΩ	± 100 ± 50 ± 25	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.200 in. [5.08 mm] W = 0.125 in. [3.18 mm] H = 0.096 in. [2.44 mm]	Metal Film
<b>WSF2515 1.0 W</b> 	26.5 Ω - 10 kΩ	± 100 ± 50 ± 25	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.250 in. [6.35 mm] W = 0.150 in. [3.81 mm] H = 0.110 in. [2.79 mm]	Metal Film
<b>WSF4527 2.0 W</b> 	10 Ω - 100 kΩ	± 100 ± 50 ± 25	± 0.5 %, ± 1.0 %, ± 5.0 %	L = 0.455 in. [11.56 mm] W = 0.275 in. [6.98 mm] H = 0.167 in. [4.24 mm]	Metal Film
<b>WSZ6720 1.8 W</b> 	1 Ω - 510 Ω 0.22 Ω - 510 Ω 0.1 Ω - 510 Ω 24 Ω - 3.3 kΩ 1.8 Ω - 3.3 kΩ	-10...-80 ppm/K -10...-80 ppm/K -10...-80 ppm/K 100...180 ppm/K 100...180 ppm/K	± 1 % ± 2 % ± 5 %, ± 10 % ± 5 % ± 10 %	L = 0.67 in. [17.0 mm] W = 0.20 in. [5.0 mm] H = 0.237 in. [6.0 mm]	Wirewound
<b>WSZ7532 3.75 W</b> 	1 Ω - 9.99 Ω 10 Ω - 15 kΩ	± 50 ± 30	± 5 %, ± 10 % ± 1 %, ± 3 %, ± 5 %, ± 10 %	L = 0.782 in. [19.86 mm] W = 0.322 in. [8.18 mm] H = 0.350 in. [8.89 mm]	Wirewound
<b>CPSM03 3 W CPSM05 5 W</b> 	0.1 Ω - 0.99 Ω 1 Ω - 1 kΩ	± 600 ± 300	± 5 %, ± 10 %	CPSM03 L = 0.906 in. [23.01 mm] W = 0.374 in. [9.5 mm] H = 0.454 in. [11.53 mm]  CPSM05 L = 1.06 in. [26.92 mm] W = 0.374 in. [9.5 mm] H = 0.454 in. [11.53 mm]	Wirewound

\* WSN max. resistance is 1/2 that of the WSC

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